

CLAIMS

1. A resin composition for coating a metal sheet characterized by comprising a polyester resin (A) having an intrinsic viscosity of 0.5-2.0 dl/g, an elastomer resin (B) and a vinyl polymer (C) containing at least 1 wt% of a unit with a polar group, and having a structure wherein the elastomer resin (B) is finely dispersed in the polyester resin (A) and at least a portion of the elastomer resin (B) is capsulated by the vinyl polymer (C).
5
2. A resin composition for coating a metal sheet according to claim 1, wherein the sphere equivalent diameter of the elastomer resin (B) finely dispersed in the polyester resin (A) is no greater than 1 μ m.
10
3. A resin composition for coating a metal sheet according to claim 1 or 2, which comprises 1-50 parts by weight of an elastomer resin (B) and 1-50 parts by weight of a vinyl polymer (C) with respect to 100 parts by weight of a polyester resin (A).
15
4. A resin composition for coating a metal sheet according to any one of claims 1 to 3, wherein the polyester resin (A) is composed of an acid component comprising 50-95 mole percent of terephthalic acid and 50-5 mole percent of isophthalic acid and/or orthophthalic acid, and a diol component comprising a glycol of 2-5 carbon atoms.
20
5. A resin composition for coating a metal sheet according to any one of claims 1 to 3, wherein the elastomer resin (B) is a polyolefin resin.
25
6. A resin composition for coating a metal sheet according to claim 5, wherein the polyolefin resin is a copolymer of ethylene and an α -olefin of 3 or more carbon atoms, or a terpolymer comprising ethylene, an α -olefin of 3 or more carbon atoms and a non-conjugated diene.
30
7. A resin composition for coating a metal sheet

according to any one of claims 1 to 3, wherein the vinyl polymer (C) is an ionomer resin.

8. A resin composition for coating a metal sheet according to any one of claims 1 to 3, wherein the 5 elastomer resin (B) and vinyl polymer (C) form a core-shell type elastomer, with the elastomer resin (B) as the core and the vinyl polymer (C) as the shell.

9. A resin composition for coating a metal sheet according to claim 8, wherein the vinyl polymer (C) is an 10 acrylate-based polymer.

10. A resin composition for coating a metal sheet according to claim 9, wherein units containing epoxy groups or aromatic polyester bonds are introduced into the acrylate-based polymer at no greater than 15 wt% with 15 respect to the acrylate units.

11. A resin film for coating a metal sheet formed by laminating a resin composition according to any one of claims 1 to 10 either alone or in combination with another resin composition and/or adhesive.

12. A resin-coated metal sheet obtained by coating 20 one or both sides of a metal sheet using at least a resin film according to claim 11, in a single layer or multilayer lamination form.

13. A resin-coated metal container made by molding 25 a resin-coated metal sheet according to claim 12.